

## What is Claimed:

1. A data receiving apparatus comprising;

reservation accepting means for accepting a reservation of one or more data broadcast programs which may be overlapped each other in time zone and in which same broadcasting data is transmitted in multiple times (transmitted in repetition),

grouping means for grouping said reserved one or more data broadcast programs into one or more groups which interfere each other with respect to a priority (virtual programs),

priority assigning means for assigning a priority such that each of said data broadcast programs is assigned a priority which is at least unique at a same time for each of said virtual programs, and

data receiving means for receiving at least once one or more receivable ones of said broadcast data which are transmitted in repetition in each of said reserved data broadcast programs according to said priority assigned to each of said data broadcast programs.

2. A data receiving apparatus of claim 1 in which said grouping means groups;

multiple data broadcast programs overlapping each other in a time zone (directly overlapping),

4 a data broadcast program further overlapping said directly overlapping data broadcast  
5 program in a time zone (indirectly overlapping), and

6 a data broadcast program further overlapping said indirectly overlapping data broadcast  
7 program in a time zone

8 into a same virtual program, and

9 said priority assigning means assigns a unique priority to each of said reserved data  
10 broadcast programs in each of said virtual program.

1 3. A data receiving apparatus of claim 2 in which;

2 said reservation accepting means further accepts cancellation of a reservation of said  
3 reserved data broadcast program or reservation of a new data broadcast program, and

4 said grouping means removes said canceled data broadcast program from said virtual  
5 program or adds said newly reserved data broadcast program to regroup said virtual  
6 program.

1 4. A data receiving method comprising the steps of;

2 accepting a reservation of one or more data broadcast programs in each of which same  
3 broadcast data is transmitted in multiple times (transmitted in repetition) and the time zones  
4 of which may overlap each other,

5 grouping each of said reserved data broadcast programs into one of groups in which  
6 priorities interfere each other (virtual programs),

7 assigning a priority to each of said data broadcast program such that the priority thereof  
8 is at least unique at a same time in each of said virtual programs, and

9 receiving receivable one of one or more of said broadcast data which is transmitted in  
10 repetition in each of said reserved data broadcast program at least once according to said  
11 priority assigned to each of said data broadcast program.

1 5. A recording medium recording a program for causing a computer to execute;

2 a reservation accepting step of accepting a reservation of one or more data broadcast  
3 programs in each of which same broadcast data is transmitted in multiple times (transmitted  
4 in repetition) and the time zones of which may overlap each other,

5 a grouping step of grouping each of said reserved data broadcast programs into one of  
6 groups in which priorities interfere each other (virtual programs),

7 a priority assigning step of assigning a priority to each of said data broadcast program  
8 such that the priority thereof is at least unique at a same time in each of said virtual  
9 programs, and

10 a data receiving step of receiving receivable one of one or more of said broadcast data  
11 which is transmitted in repetition in each of said reserved data broadcast program at least  
12 once according to said priority assigned to each of said data broadcast program.

1 6. A recording medium of claim 5 further recording a program to execute;

2 a process in said grouping step to regroup:

3 multiple data broadcast programs overlapping each other in a time zone (directly  
4 overlapping);

5 a data broadcast program further overlapping said directly overlapping data broadcast  
6 program in a time zone (indirectly overlapping),; and

7 a data broadcast program further overlapping said indirectly overlapping data broadcast  
8 program in a time zone;

9 into a same virtual program, and

10 a process in said priority assigning step to assign a unique priority to each of said reserved  
11 data broadcast programs in each of said virtual program.

1 7. A recording medium of claim 6 further recording a program to execute;

2 a process in said reservation accepting step to further accept cancellation of a reservation  
3 of said reserved data broadcast program or reservation of a new data broadcast program,  
4 and

5 a process in said grouping step to remove said canceled data broadcast program from said  
6 virtual program or adds said newly reserved data broadcast program to regroup said virtual  
7 program.